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Disclaimer

- To take full advantage of X-431, you should be familiar with the engine.
- All information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right is reserved to make change at any time without notice.

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Brief Introduction

X431-PCCENTER is a program that makes it possible for PC (desktop/laptop computer) to join vehicle diagnostics with X-431 synchronously via Bluetooth. User can also record data, playback/analyze data, import file, update X-431 program, get internet service, get autobase, etc. with diagnostics. It provides convenient to save, analyze and manage data. The synchronous diagnostics can be performed easily and conveniently. The program consists of two parts: Display and Diagnostics. Display is the program running on PC while Diagnostics running on X-431. When using X-431 to diagnose a vehicle, run Bluetooth program to communicate X-431 and PC, and run the programs -- Display and Diagnostics respectively. The synchronous diagnostics can be performed easily and conveniently, X431pccenter must be used with X-431 product family, including: X-431 X-431Tool X-431Heavy duty AutoBook and so on.

Fundamental steps for realizing the synchronous diagnostics:

- Install X431-PCCENTER program;
- Run Bluetooth program to connect PC to X-431;
- Connect X-431 to vehicle diagnostic socket;
- Perform synchronous diagnostics.

Preconditions for Synchronous Diagnostics

Hardware and Other Requirements

1. PC hardware/software requirement:
   Operating system: Windows 98/2000/NT/XP
   CPU: Pentium200 or up
   Monitor: resolution 1024*768 or up
   RAM: at least 256MB
2. Complete X-431 hardware (refer to “X-431 User’s Manual”).
3. X-431 Operating System V10.83 or later

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4. X-431 Display Program V14.03 or later
5. X-431 works in normal condition (refer to “Conditions for Test” in “X-431 User’s Manual”).

Configuration

X431-PCCENTER product includes
a. USB BT
b. X-431 BT box
c. TOOL-PCCENTER-CABLE
d. X431-PCCENTER serial cable
e. Three disks(installation software and Bluetooth driver program)
f. User’s Manual

How to Connect

Here we will show how to connect the product with X431-PCCENTER, vehicle and PC. The connection of X-431 Tool is different from others, such as X-431, AutoBook, and X-431Heavy-Duty. Here we take X-431 and X-431 Tool for example.

X-431 connecttion

1. Connect X-431 to vehicle diagnostic socket. (refer to “X-431 User’s Manual”)
2. Connect Serial Port adaptor of X-431 BT box to the serial port of X-431, and connect male power adaptor of X-431 BT box to the female power adaptor of X-431 main cable (If the power supply on vehicle diagnostic socket is insufficient or the power pin is damaged, connect the female power adaptor of X-431 BT box to cigarette lighter for power supply).
3. Connect the USB BT to PC USB port.

X-431 Tool connecttion

1. Connect X-431 Tool to DLC on board. The wireless link is shown in Figure 1 (Refer to “X-431Tool User’s Manual”).

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2. Connect one end of TOOL-PCCENTER-CABLE with the serial port of X-431 Tool, as shown in Figure 2.
3. And connect the other end of TOO-PCCENTER-CABLE with the serial cable of X431-PCCENTER, as shown in Figure 2.
4. Then connect the other end of X431-PCCENTER to the serial port of PC, as shown in Figure 2.

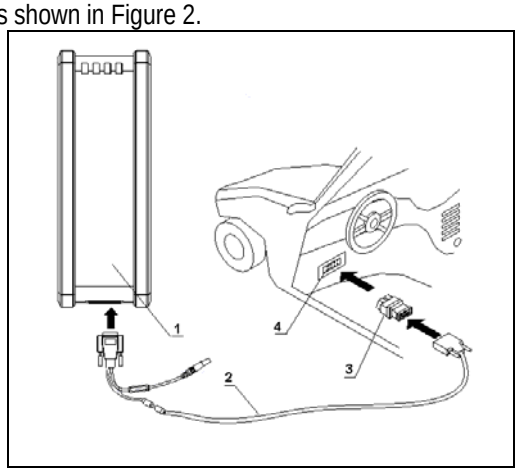

Figure 1

1—DIAGInfinite 2—main cable
3—diagnostic connector 4—diagnostic socket

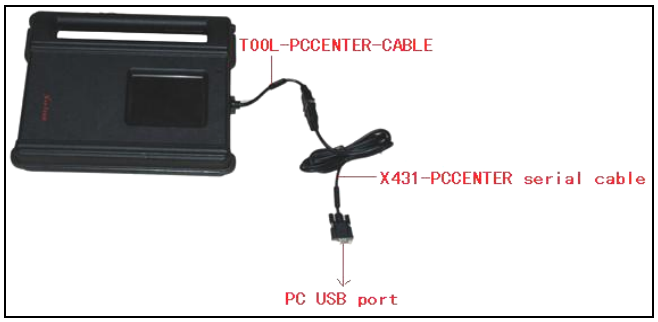

Figure 2

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Install X431-PCCENTER Program

Install DISPLAY on PC

1. Start Windows operating system and put X431-PCCENTER CD-ROM 1 into CD driver of PC.

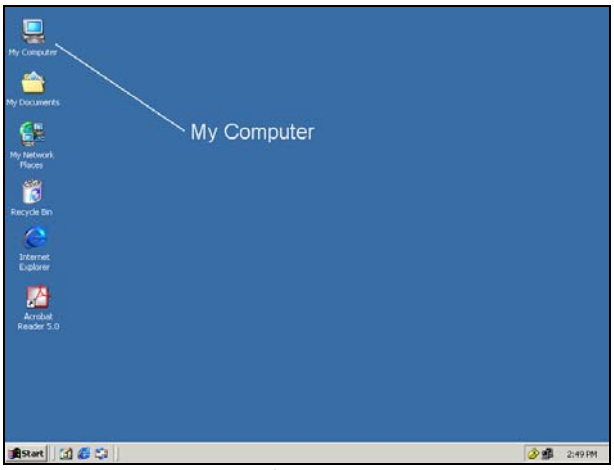

Figure 01

Note: X431-PCCENTER has 3 disks. Disk 1 includes X431-PCCENTER SETUP.EXE installation file and Bluetooth driver Bluesoleil.rar. Other disks include autobase information.

2. Double click “My computer” on Desktop so that PC shows the following screen:

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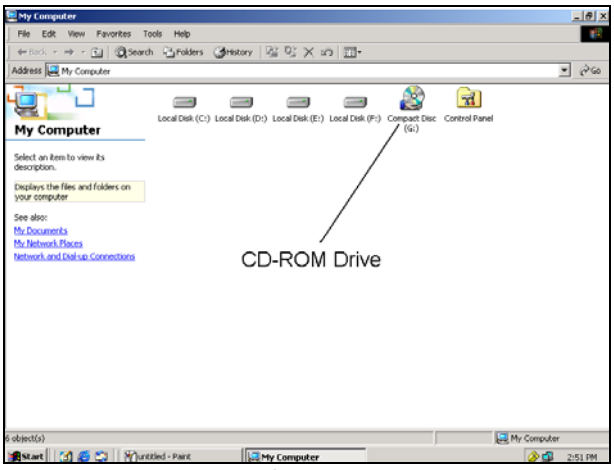

Figure 02

3. Double click the icon of CD driver (G:) to get the next screen as shown in Figure 03.

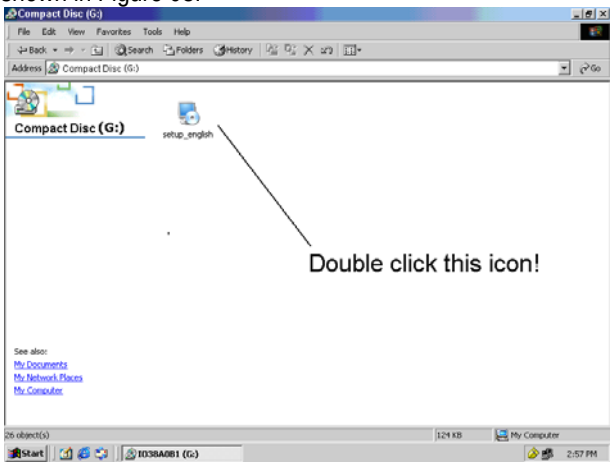

Figure 03

Note:
The CD driver may be marked with different letter for different computer. Refer to the operation manual of your computer to find the correct CD driver.

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4. Double click the “Setup” icon to start installation. The screen shows the following message:

X431-PCCENTER Setup
Welcome
Welcome to the installer for X431-PCCENTER 1.0.
It is strongly recommended that you exit all Windows programs before continuing with this installation.
If you have any other programs running, please click Cancel, close the programs, and run this setup again.
Otherwise, click Next to continue.
< Back
Next >
Cancel

Figure 04

5. Click “Next” to continue the process, The screen shows the following message:

X431-PCCENTER Setup
License Agreement
Please read the following license agreement carefully.
SOFTWARE LICENSE AGREEMENT AND WARRANTY STATEMENT
LAUNCH SOFTWARE CORPORATION ("LAUNCH") IS WILLING TO LICENSE THE SOFTWARE ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS LICENSE AGREEMENT. PLEASE READ THE TERMS CAREFULLY. BY CLICKING ON "ACCEPT" AND/OR INSTALLING THE SOFTWARE, YOU WILL INDICATE YOUR AGREEMENT WITH THEM. IF YOU DO NOT AGREE WITH THESE TERMS, THEN LAUNCH IS UNWILLING TO LICENSE THE SOFTWARE TO YOU, IN WHICH EVENT YOU SHOULD NOT PROCEED WITH INSTALLING THE SOFTWARE.
1. The Software. The Software licensed under this Agreement consists of computer programs, data compilation(s), and documentation referred to as X431-PCCENTER, version 1.0 (the "Software").
I agree to the terms of this license agreement
I do not agree to the terms of this license agreement
< Back
Next >
Cancel

Figure 05

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6. Select “I agree to the terms of this license agreement”, then click ”Next:”:

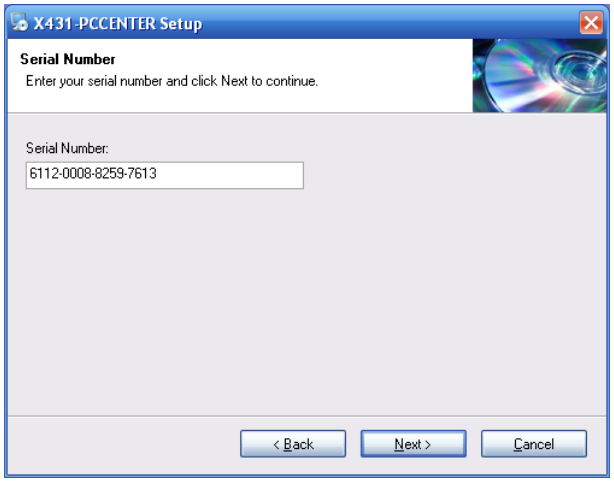

Figure 06

7. Input the serial number (Every set of device has different serial number which is put in the code envelop.) and click “Next”. The screen shows the following message:

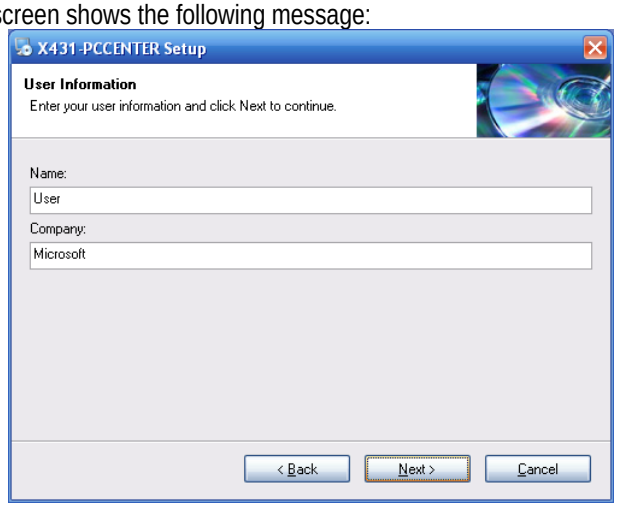

Figure 07

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8. Input Name and Company, click “Next”. The next screen will be shown as in Figure 08.

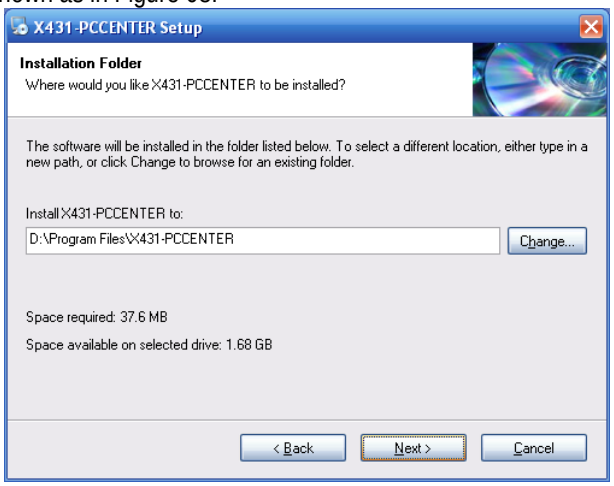
X431-PCCENTER Setup
Installation Folder
Where would you like X431-PCCENTER to be installed?
The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.
Install X431-PCCENTER to:
D:\Program Files\X431-PCCENTER
Change...
Space required: 37.6 MB
Space available on selected drive: 1.68 GB
< Back
Next >
Cancel

Figure 08

9. Click “Next” to continue the process. (*Note: Click “Back” if you want to make some alteration in above steps.*) The screen shows the progress of installation as shown in Figure 09&Figure 10

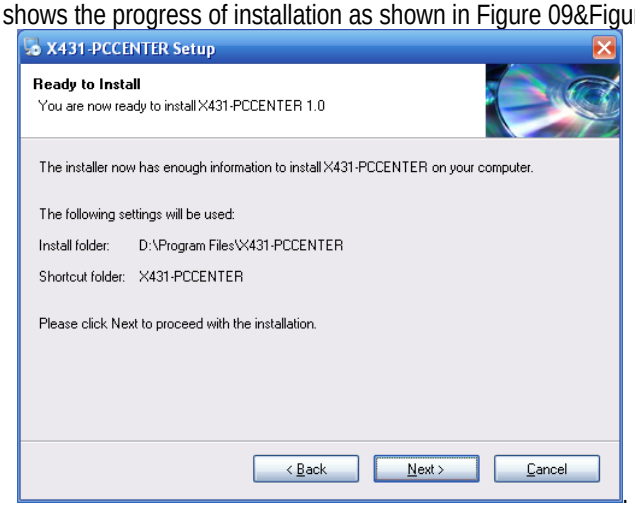
X431-PCCENTER Setup
Ready to Install
You are now ready to install X431-PCCENTER 1.0
The installer now has enough information to install X431-PCCENTER on your computer.
The following settings will be used:
Install folder: D:\Program Files\X431-PCCENTER
Shortcut folder: X431-PCCENTER
Please click Next to proceed with the installation.
< Back
Next >
Cancel

Figure 09

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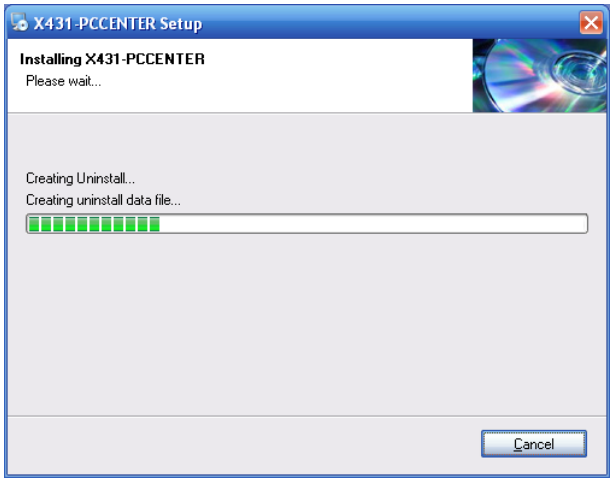

Figure 10

10. When the installation is complete, the screen will shown the following message:

Figure 11

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11. Click “Finish” to finish the installation.

Install DIAGNOSTICS on X-431

The installation procedure for X431-PCCENTER DIAGNOSTICS is similar to the update procedure of X-431 diagnostic program. Refer to the chapter “Update of Diagnostic Software” in X-431 User’s Manual or “X-431 Upgrade Instruction” on http://www.x431.com.

When you get into the “Download Center” on http://www.x431.com, you can find the “X431-PCCENTER” program as shown in Figure 12.

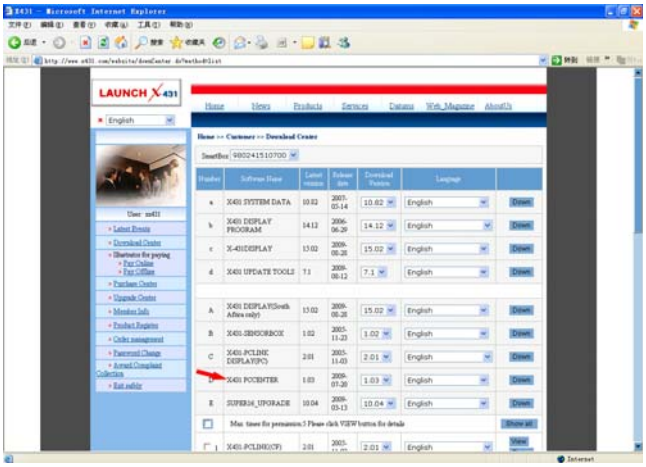

Figure 12

Download and install the program by the same procedure as that used in update of X-431 diagnostic program.

Connection of Bluetooth

There are two accessories for X431-PCCENTER Bluetooth communication:
USB BT (For connecting USB interface on PC)
X-431 BT box (For connecting the interface on the side of X-431 and

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for power)

Set of Bluetooth COM

After the two connect well, you can select drivers below to set Bluetooth COM:

1.IVT driver program

If you want to use the Bluesoleil driver program packed in X431-PCCENTER program, firstly find the compress folder in the install DISC1. Decompress the Bluesoleil compress folder, install the Bluesoleil program. After installation is complete, a Bluetooth icon will occur on the desktop. See Figure 19:

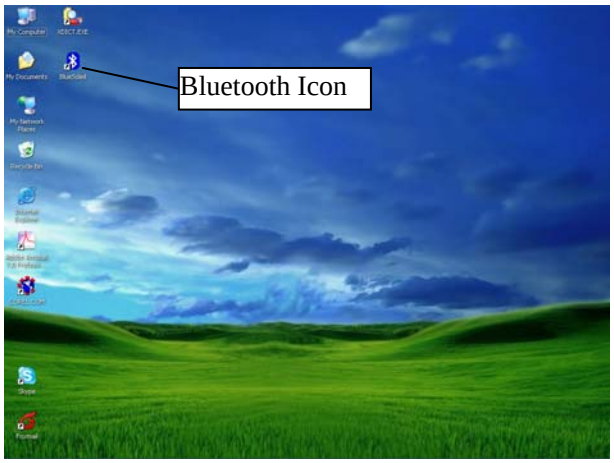

Figure 19

Double click , and a window will pop up as shown in Figure 20:

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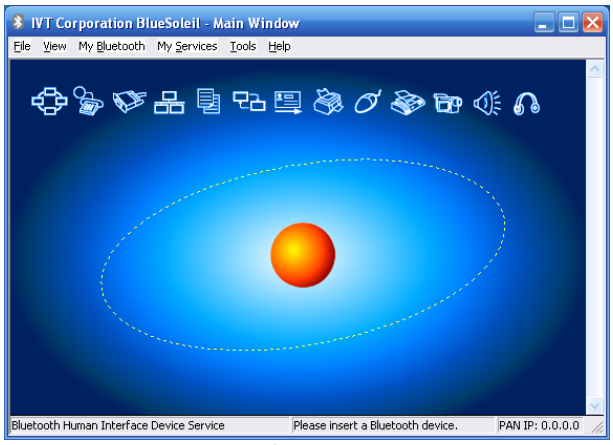
IVT Corporation BlueSoleil - Main Window
File View My Bluetooth My Services Tools Help
Bluetooth Human Interface Device Service
Please insert a Bluetooth device.
PAN IP: 0.0.0.0

Figure 20

Double click , and the screen will display the interface as shown in Figure 21:

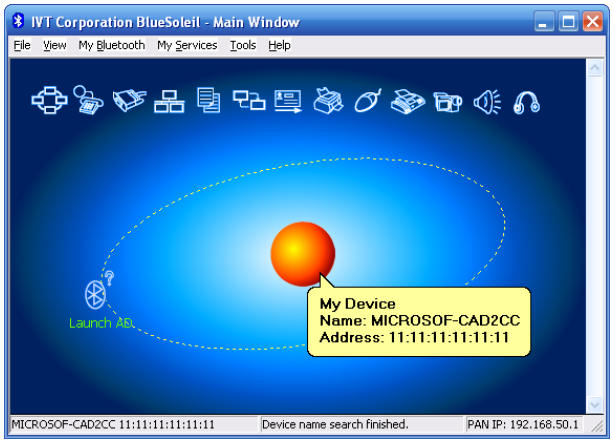

Figure 21

Double click “Launch AD” icon, and the screen will display the interface as shown in Figure 22:

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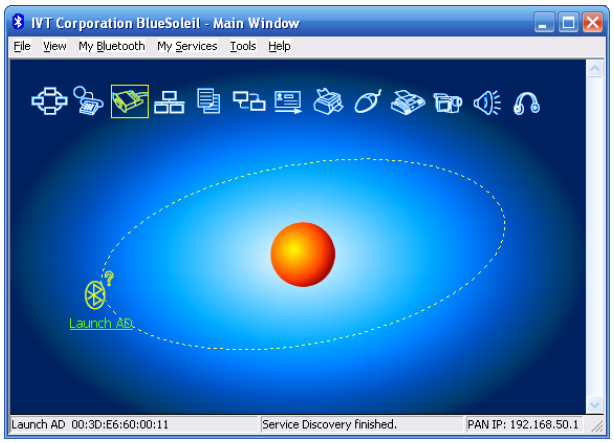
IVT Corporation BlueSoleil - Main Window
File View My Bluetooth My Services Tools Help
Launch AD
Launch AD 00:3D:E6:60:00:11
Service Discovery finished.
PAN IP: 192.168.50.1

Figure 22

And then double click to set the connection between USB BT and X-431 BT box. System will assign a COM port automatically. See Figure 23:

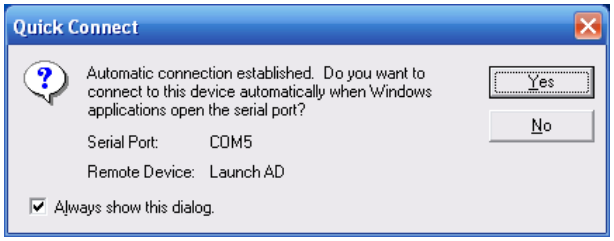
Quick Connect
Automatic connection established. Do you want to connect to this device automatically when Windows applications open the serial port?
Serial Port: COM5
Remote Device: Launch AD
Always show this dialog.
Yes
No

Figure 23

Click [Yes]. After connection is complete, the Bluetooth icon turns from blue to green. See Figure 24.

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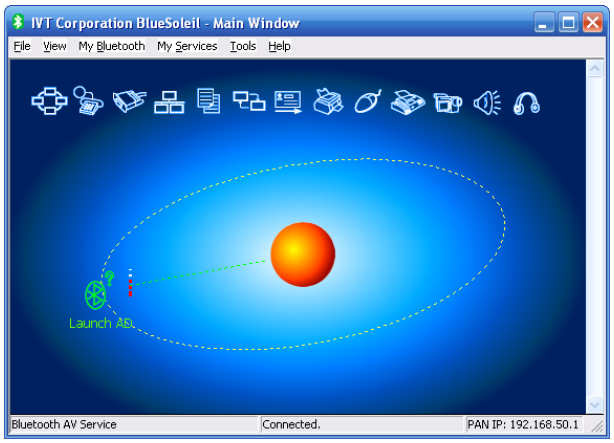

Figure 24

Now, Bluetooth communication has been founded. You can communicate via Bluetooth.

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Function and Running of X431-PCCENTER

Here we take X-431 for example to show how to operate with X431-PCCENTER

Run X431-PCCENTER

Run X431-PCCENTER DIAGNOSTICS

Click “X431-PCCENTER” in the Start menu of X-431. See Figure 25.

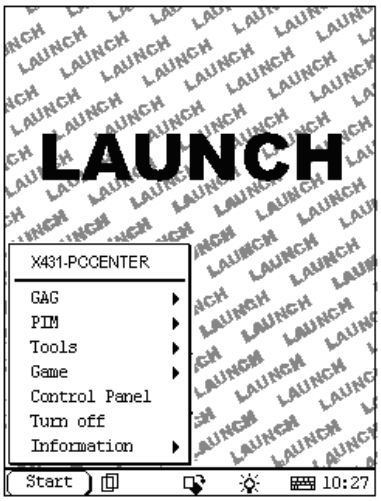

Figure 25

Then X-431 displays the next screen as shown in Figure 26.

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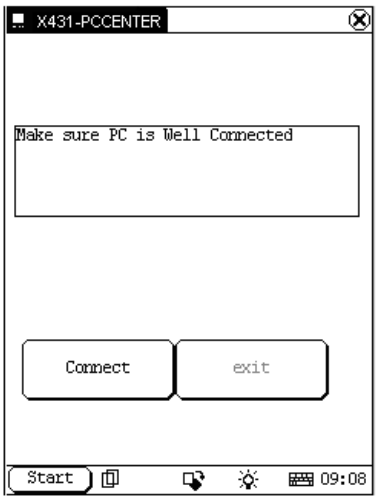

Figure 26

Click “Connect” button. X-431 pops up a window as shown in Figure 27.

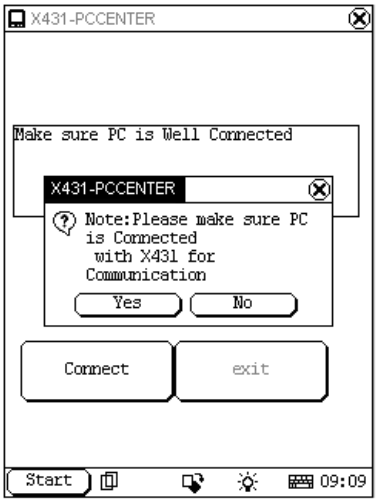

Figure 27

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Click “Yes” on the screen so as to run X431-PCCENTER DIAGNOSTICS. The next screen will be displayed as shown in Figure 28.

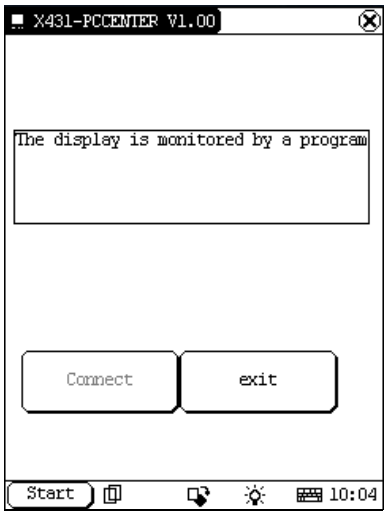

Figure 28

Button description:
[Exit]: to exit X431-PCCENTER Diagnostics.

Refer to “X-431 User’s Manual” to get more information about X-431 operation.
Note! The display is monitored by a program now.

Run X431-PCCENTER DISPLAY

Find the icon on the PC desktop (see Figure 29) or another folder (for the actual location, please see the installation step 8) and click it to run the program.

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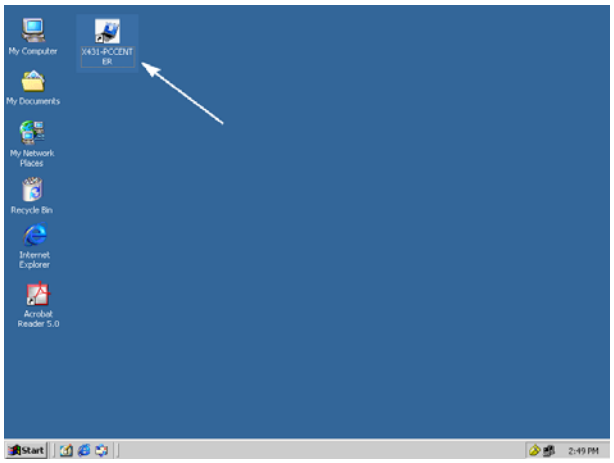

Figure 29

Function of the Program

The PC will show the following screen when X431-PCCENTER DISPLAY is run:

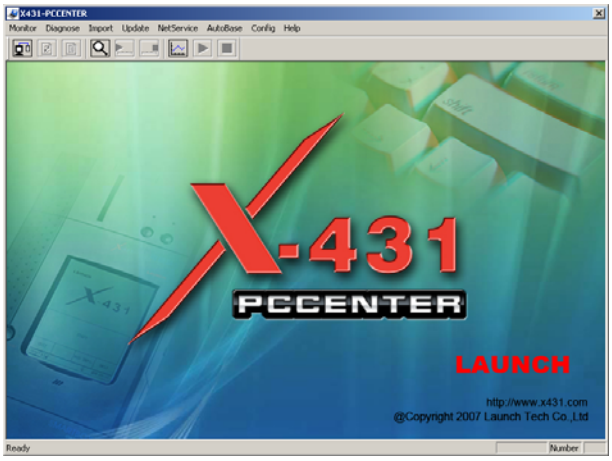

Figure 30

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Monitor

Link monitor

Click [Monitor] - [Link monitor] or , the prompt box will pop up as shown in Figure 31:

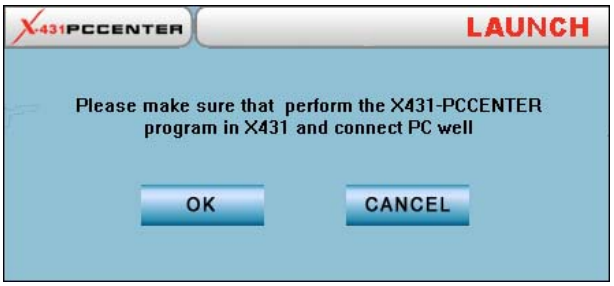

Figure 31

Make sure that perform the X431-PCCENTER program in X-431 and connect PC well, then click [OK] to enter the next interface:

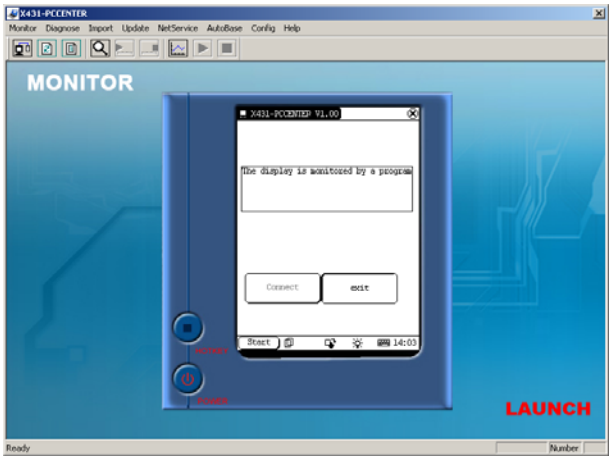

Figure 32

This is for using PC to monitor and control X-431.

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The PC will display the same screen as that on X-431. See Figure 33. Click the X-431 function button displayed on PC screen by mouse to operate X-431.
If the screen is black or freezing, please click [refresh] button that can help with the problem.

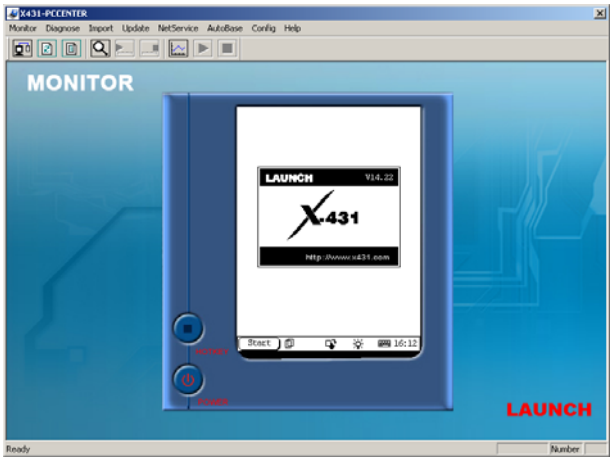

Figure 33

Refresh

Click [Monitor] - [Refresh] or to refresh PC screen when it is not synchronous with X-431.

Screen capture

Click [Monitor] - [Screen capture] or to capture and save the screen displayed on X-431 for later demonstration or feedback to Launch for getting solutions to the problem.

Diagnose

When PC is linked with X-431, it also can be operated on PC for diagnostics.

(c) Diagtools LTD, www.x431.lv

The synchronous diagnostics includes the following functions:

Link diagnose

Click [Diagnose] - [Link diagnose] or , the screen will display the interface as shown in Figure 34.

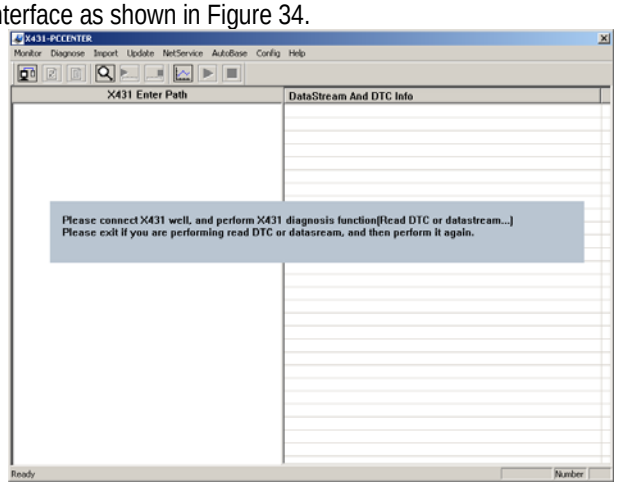
X431-PCCENTER
Monitor Diagnose Import Update NetService AutoBase Config Help
X431 Enter Path
DataStream And DTC Info
Please connect X431 well, and perform X431 diagnosis function[Read DTC or datastream...]
Please exit if you are performing read DTC or datasream, and then perform it again.
Ready
Number

Figure 34

Note: Please enter this interface above before X-431 enters read data stream or read DTCs interface. And then read data stream or DTCs with X-431, click[Link diagnose] or *, the screen will display the interface as shown in Figure 37, showing the same data stream or DTCs in display of X-431.*

(c) Diagtools LTD, www.x431.lv

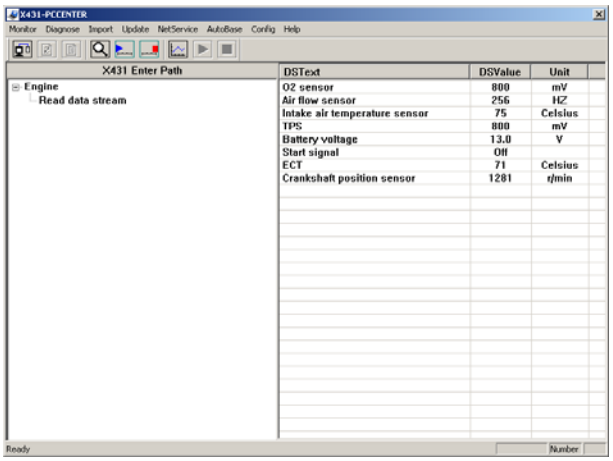

Figure 35

Flash Save

This function is for saving the data stream or trouble codes for later analysis or comparison with newly appeared one.

Note:
Only the data stream at the moment of occurrence can be saved. For saving the data stream in a specified period, use [Record] button. The function will be described later.

When performing vehicle diagnostics, for example, reading trouble code or data stream, the PC screen will display the test results as shown in Figure 35.

Click [Diagnose]-[Flash save] in Figure 35, a window will pop up as shown in Figure 36.

(c) Diagtools LTD, www.x431.lv

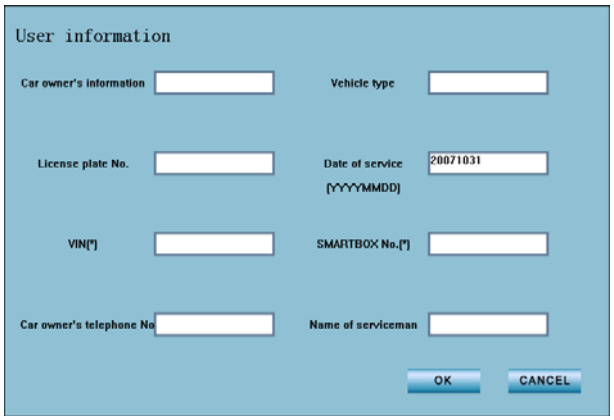

Figure36

Enter the necessary information in the box and click [OK], a window will pop up as shown in Figure 37.

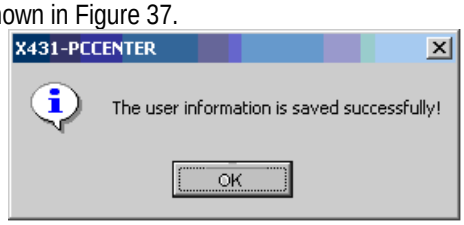

Figure 37

Click [OK] to save data successfully.

Note:
Items marked with an "" are required, e.g. VIN and SMARTBOX No.*

If the required information is not entered, a prompt box will pop up. See Figure 38.

(c) Diagtools LTD, www.x431.lv

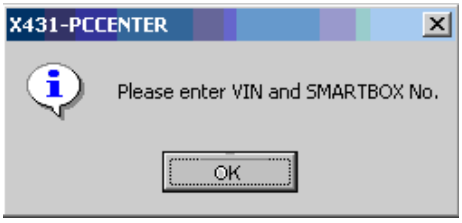

Figure 38

Data Record

This function is for recording the data stream in a period of time and establishing a service databank for later reference.

Click[Data Record] - [Start Record] button to get into the interface as shown in Figure 39.

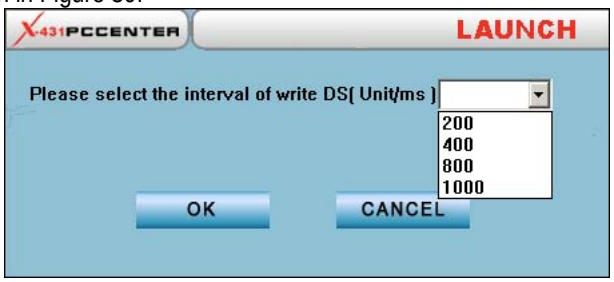

Figure 39

Note: selecting the interval of write DS (200ms,ect), is to save one stream of data to .X-431 file every 200ms. It is up to customer to select.

After selecting the unit, it starts to save data stream. Click [Data Record] - [Stop Record] or , the PC will display the screen as shown in Figure 40.

(c) Diagtools LTD, www.x431.lv

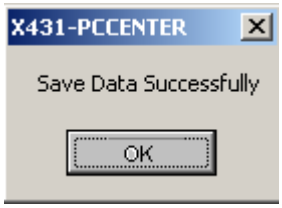

Figure 40

Note: the data will be saved in the X-431 folder under the installation folder of X431-PCCECTER. It will be automatically-generated when system is saving data stream.

Search Data

This function is for searching the fault data stored before. It may be helpful for checking and analyzing current fault.

Note: the operations of datastream, DTC and user information are the same. Let's take the operation of datastream as an example for illustration.

Click [Search Data] - [DataStream] - [Find All]. A window will pop up. See Figure 41.

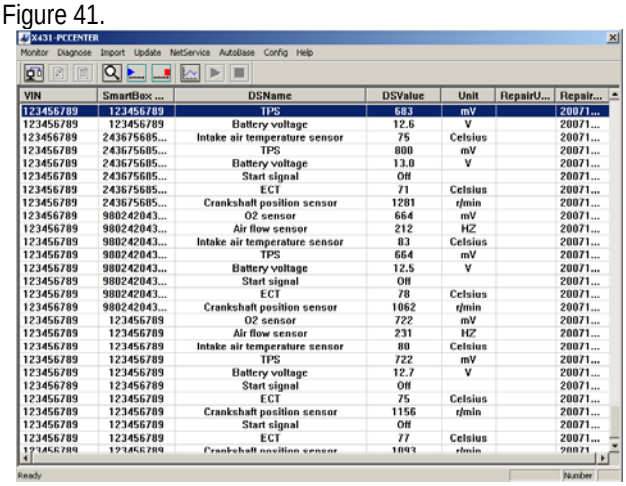

Figure 41

(c) Diagtools LTD, www.x431.lv

Click [Find by Key], a window will pop up as shown in Figure 42.

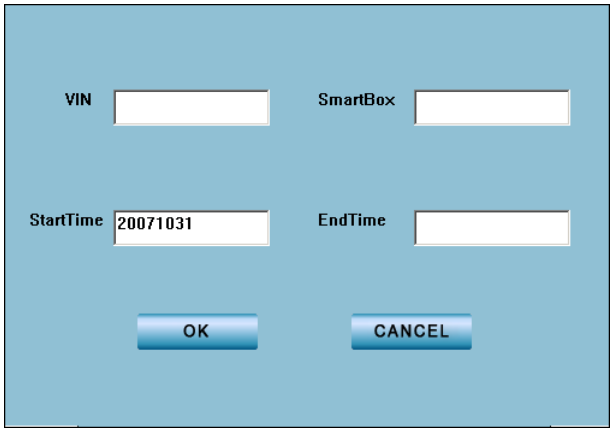

Figure 42

Enter at least one search item and then click [OK]. The screen will display the matched results. See Figure 43.

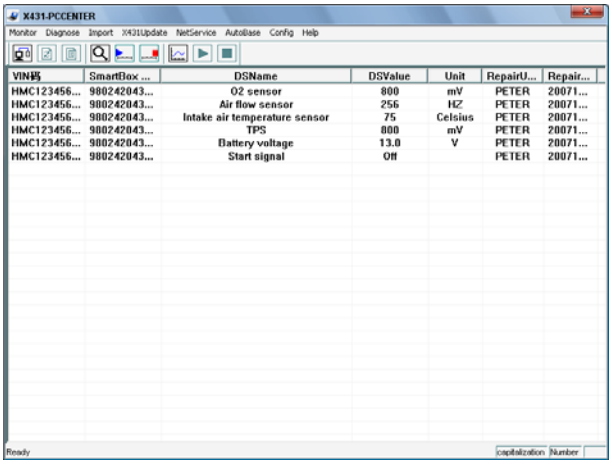

Figure 43

(c) Diagtools LTD, www.x431.lv

If any search item wasn't entered, the screen will show the window as Figure 44.

Figure 44

If you want to delete one stream of data, click it with right button of mouse, and a window will pop up:

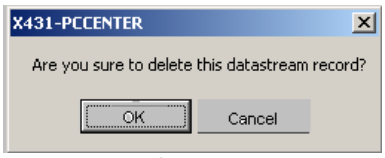

Figure 45

If you want to delete, click [OK]; if you want to cancel, click [Cancel]. After clicking [OK], a window will pop up.

Figure 46

Print

This function is for printing current data. (Make sure the printer is in normal condition.)

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Import

Import CF Card File

The datastream is saved in CF card if use X-431 separately. User can import the saved datastream through CF card writer/reader for analysis. For the X431 record function, please refer to the “X-431 Use’s Manual” or “Function of X431 Data Record” on www.x431.com.
Click [Import CF Card File], and a dialogue box will pop up as shown in Figure 47. Select an .ini file and click [Open] (The path:/Removable Disk (F:) /GAG/SMARTBOX/SAVE), the file will be automatically converted to .X431 file and saved in X431 folder.

Note: X431 folder will be automatically-generated under the installation folder of X431-PCCENTER when system is converting files.

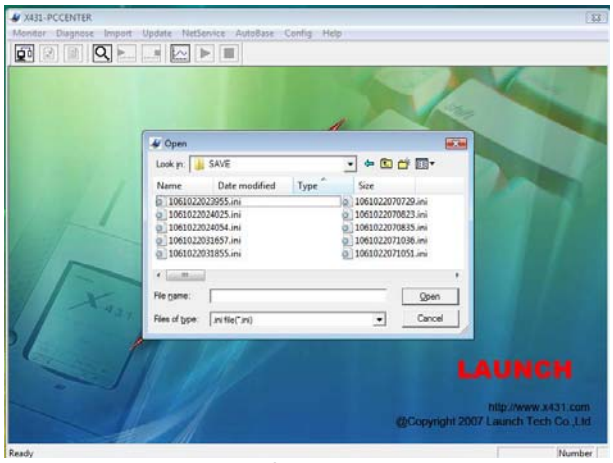

Figure 47

Select an .ini file and click [Open], a dialogue box will pop up as shown in Figure 48.

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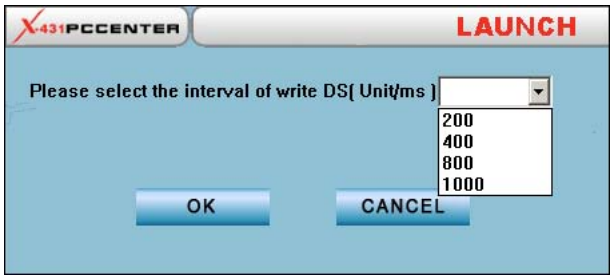

Figure 48

Note: selecting the interval of write DS(200ms,ect), is to save one stream of data to .X431 file every 200ms. It is up to customer to select.

Analyze .X431 File

This function is for showing the data stream graphically. It can display four strips of data stream at the same time, which helpful to analyse relative data stream and pinpoint the trouble.

Click [Import]-[Analyze .X431 File] or , a dialog box will pop up as shown in Figure 49.

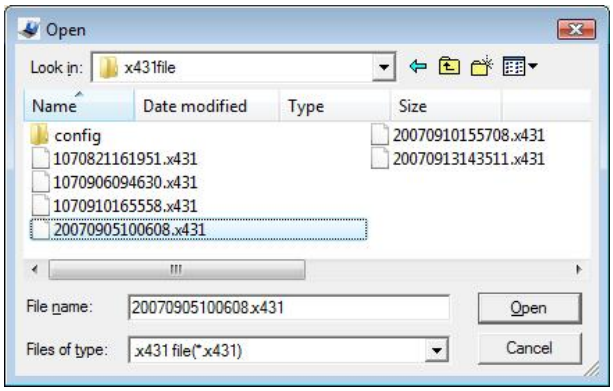

Figure 49

Select a file in X431 folder and then click [Open], the screen will display

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the message as shown in Figure 50.

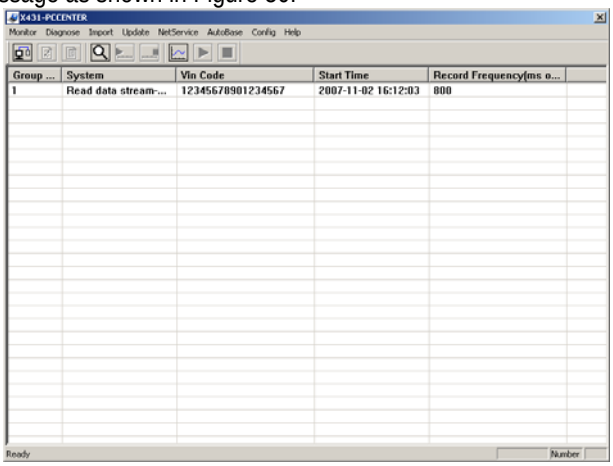
X431-PCCENTER
Monitor Diagnose Import Update NetService AutoBase Config Help
Group ... System Vin Code Start Time Record Frequency[ms o...
1 Read data stream-... 12345678901234567 2007-11-02 16:12:03 800
Ready
Number

Figure 50

Double click the name of data stream; the screen will display the message as shown in Figure 51.

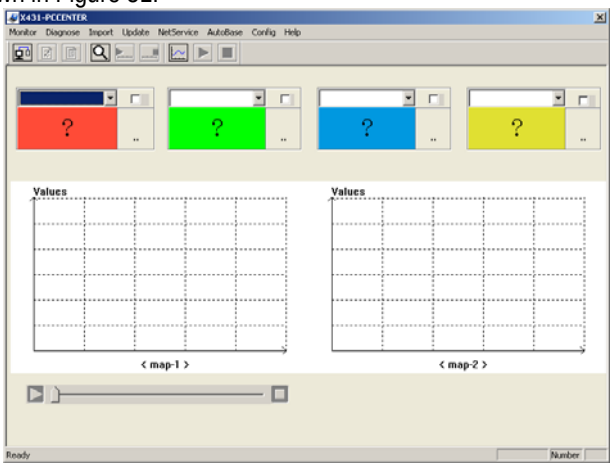

Figure 51

Select different data stream in pop-down menus, and tick behind them. The color below the data stream indicates that the color of waveform in

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below graph. See Figure 52.

Figure 52

And then click or , it starts to display waveforms. During display, click or to stop the display at any time. See Figure 53.

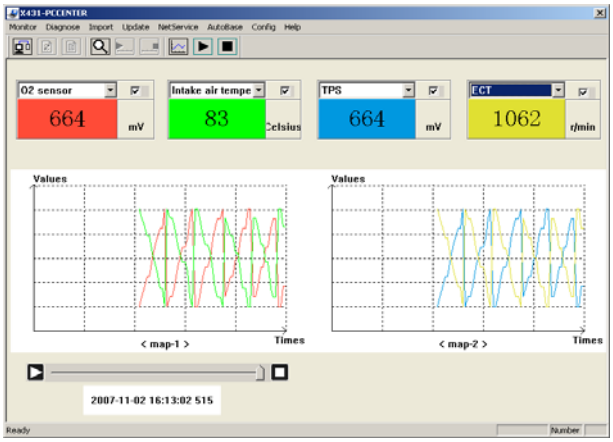

Figure 53

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Update

1. X431 Update Info

This function is to update software version.

Click [Update]-[X431 Update Info], the screen will display the message as shown in Figure 54:

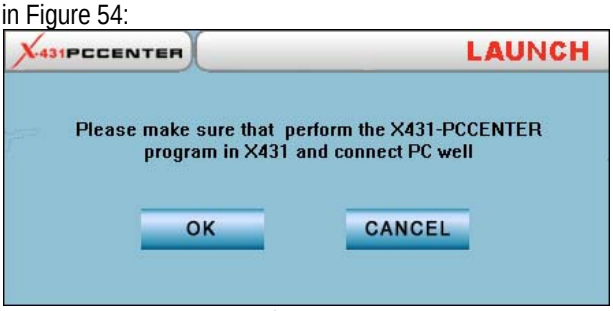

Figure 54

Make sure connect well, and click [OK], the screen will display the message as shown in Figure 55:

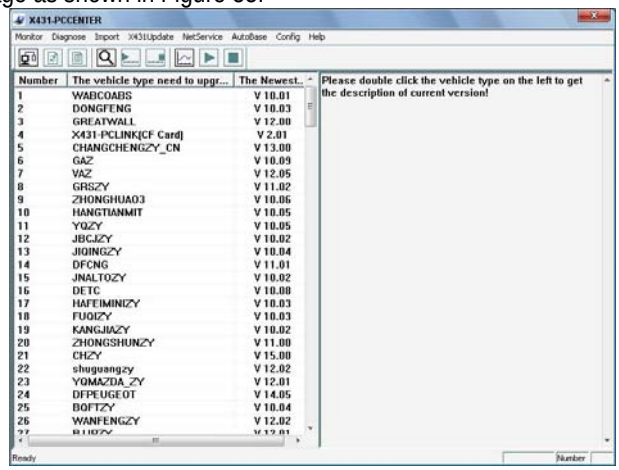
X431-PCCENTER
Monitor Diagnose Import X431Update NetService AutoBase Config Help
Number
The vehicle type need to upgr...
The Newest..
Please double click the vehicle type on the left to get the description of current version!
1 WABCOABS V 10.01
2 DONGFENG V 10.03
3 GREATWALL V 12.00
4 X431-PCLINK[CF Card] V 2.01
5 CHANGCHENGZY_CN V 13.00
6 GAZ V 10.09
7 VAZ V 12.05
8 GRSZY V 11.02
9 ZHONGHUA03 V 10.06
10 HANGTIANMIT V 10.05
11 YQZY V 10.05
12 JBCJZY V 10.02
13 JIQINGZY V 10.04
14 DFCNG V 11.01
15 JNALTOZY V 10.02
16 DETC V 10.00
17 HAFEIMINIZY V 10.03
18 FUQIZY V 10.03
19 KANGJIAZY V 10.02
20 ZHONGSHUNZY V 11.00
21 CHZY V 15.00
22 shuguangzy V 12.02
23 YQMAZDA_ZY V 12.01
24 DFPEUGEOT V 14.05
25 BOFTZY V 10.04
26 WANFENGZY V 12.02
Ready
Number

Figure 55

Double click the vehicle type on the left to view the detailed information about the update. See Figure 56:

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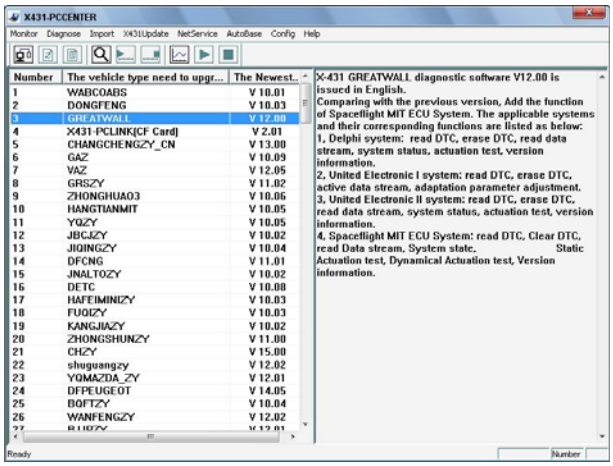
X431-PCCENTER
Monitor Diagnose Import X431Update NetService AutoBase Config Help
Number The vehicle type need to upgr... The Newest...
1 WABCOABS V 10.01
2 DONGFENG V 10.03
3 GREATWALL V 12.00
4 X431-PCLINK[CF Card] V 2.01
5 CHANGCHENGZY_CN V 13.00
6 GAZ V 10.09
7 VAZ V 12.05
8 GRSZY V 11.02
9 ZHONGHUA03 V 10.06
10 HANGTIANMIT V 10.05
11 YQZY V 10.05
12 JBCLZY V 10.02
13 JIQINGZY V 10.04
14 DFCNG V 11.01
15 JNALTOZY V 10.02
16 DETC V 10.08
17 HAFEIMINIZY V 10.03
18 FUQIZY V 10.03
19 KANGJIAZY V 10.02
20 ZHONGSHUNZY V 11.00
21 CHZY V 15.00
22 shuguangzy V 12.02
23 YOMAZDA_ZY V 12.01
24 DFPEUGEOT V 14.05
25 BOFTZY V 10.04
26 WANFENGZY V 12.02
X-431 GREATWALL diagnostic software V12.00 is issued in English.
Comparing with the previous version, Add the function of Spaceflight MIT ECU System. The applicable systems and their corresponding functions are listed as below:
1, Delphi system: read DTC, erase DTC, read data stream, system status, actuation test, version information.
2, United Electronic I system: read DTC, erase DTC, active data stream, adaptation parameter adjustment.
3, United Electronic II system: read DTC, erase DTC, read data stream, system status, actuation test, version information.
4, Spaceflight MIT ECU System: read DTC, Clear DTC, read Data stream, System state, Static Actuation test, Dynamical Actuation test, Version information.
Ready
Number

Figure 56

2. X431 Update Tool

Please refer to Update Tool Chapter of “X-431 User’s Manual”.

Net service

User can upload the recorded .X431 file to website for professional analysis. The function is described below:

User must register on www.crecorder.com first, and then he can get the service.

Firstly, login to www.crecorder.com. See Figure 57.

(c) Diagtools LTD, www.x431.lv

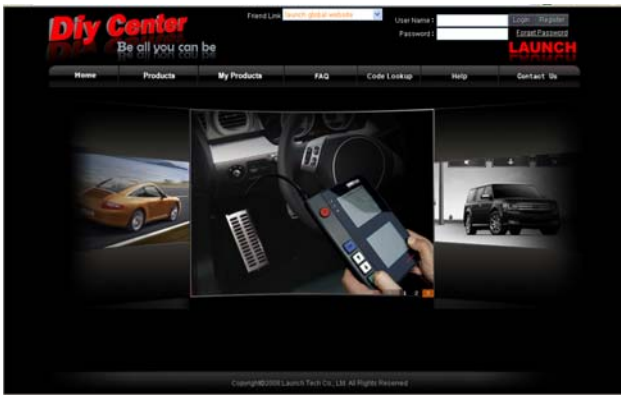

Figure 57

Click [Register] in the upper right-hand corner. The screen will display the register information as shown in Figure 58:

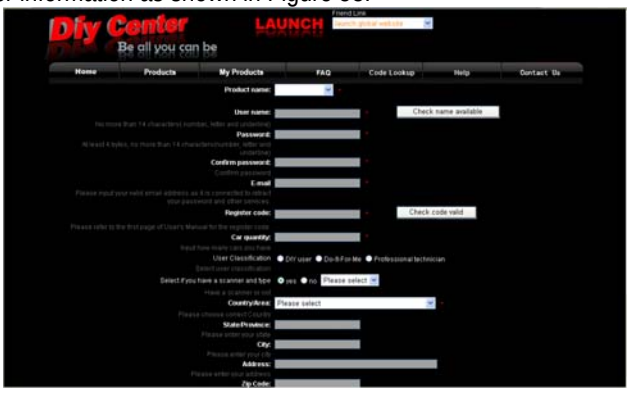

Figure 58

Please use the serial number of X431 to register (refer to the chapter about the serial number of X431). After the information is filled in the interface (make sure the register mailbox is valid, so that we send a activate e-mail to your mail box), click [Create Login], the screen will display the message as shown in Figure 59:

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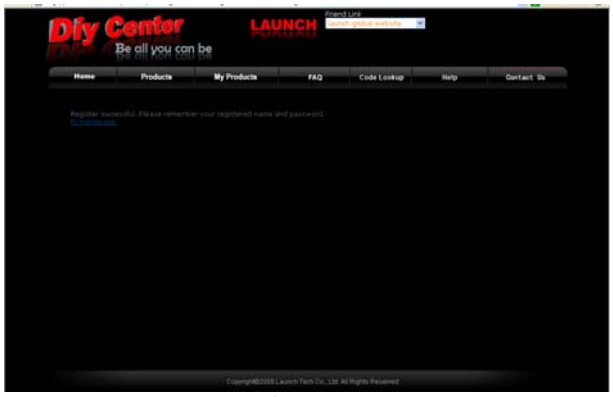

Figure 59

Now you may login your register mailbox to click the activate e-mail for activating your account.
After activate, you can upload .X431 file for professional analysis.

How to upload .X431 file:
Click [Net Service]-[Upload .X431file], a window will pop up as shown in Figure 60:

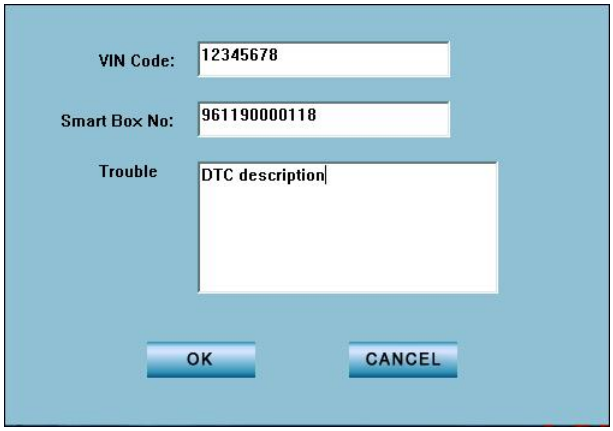

Figure 60

(c) Diagtools LTD, www.x431.lv

Note: the serial number to fill must be the register serial number. Otherwise, it will fail to upload.

After filling the information in the interface, click [OK], a window will pop up as shown in Figure 61:

Figure 61

Now the recorded .X431 file is uploaded to website. User can get professional diagnostic report.
Login to www.crecorder.com with the register name and password, and then click [Vehicle Data Base], the screen will display the message as shown in Figure 62.

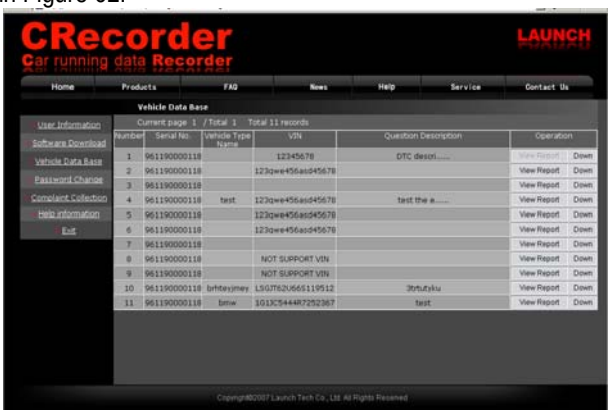

Figure 62

Click [View Report] behind the question to view the professional analysis,

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or click [Download] to download the report.

Autobase

You need register before viewing vehicle autobase. The register procedures are listed as below:

1. Enter Vehicle Autobase menu. If you have not registered, it will display “Not register”.
2. Click “HELP” button, and then click “Get machine ID” in the right bottom of “HELP” window.
3. It will display machine ID in the pop-up menu. Click “Copy machine ID”, and set up a new file on hard disk to save the ID.
4. Send the ID file to Launch (yibin.zhong@cnlaunch.com) by e-mail. And then Launch will send you a register program.
5. After receiving register program, double click it to run, and register procedure is completed.

This function provides the system circuit diagram of normal model. Click “Autobase” to enter Figure 63.

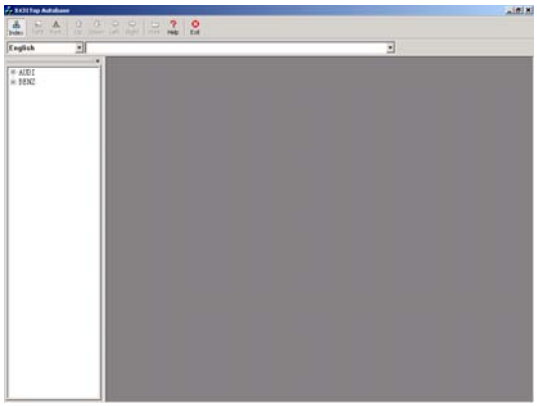

Figure 63

Click “+” on the left index to expand it. Select the circuit diagram to view. The circuit diagram of the system will be displayed at right (See Figure 64).

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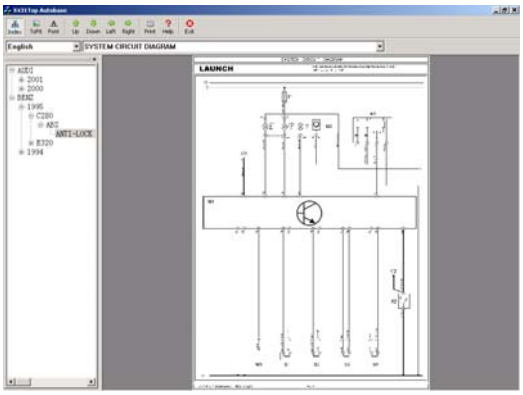

Figure 64

Move the mouse to one module (See Figure 65) or select one module on the drop-down menu (See Figure 66), and then click to expand the circuit diagram. The red part is the selected module. See Figure 67.

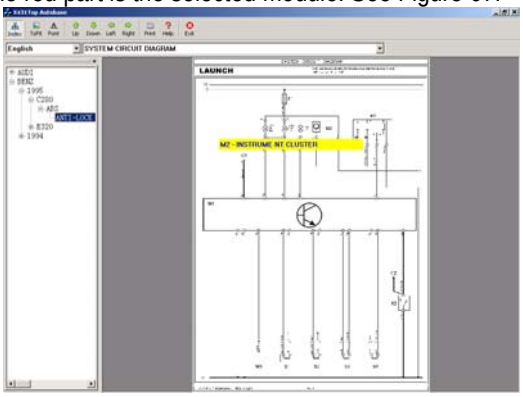

Figure 65

(c) Diagtools LTD, www.x431.lv

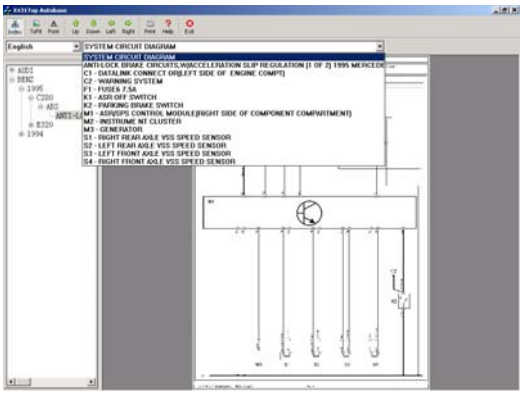

Figure 66

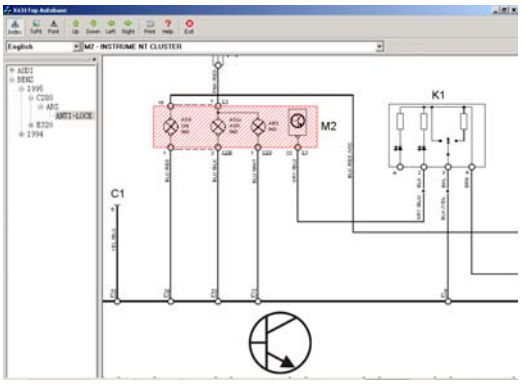

Figure 67

Click “help” to acquire the help about the circuit diagram. See Figure 68.
Click “exit” to leave the interface.

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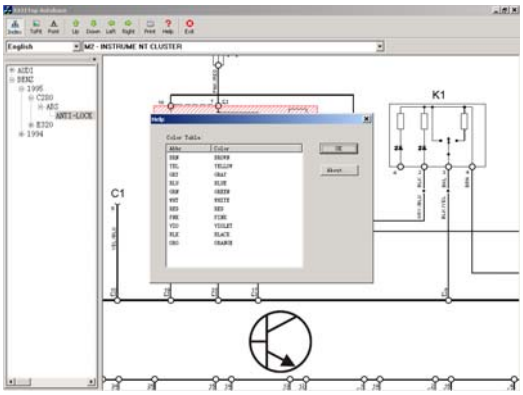

Figure 68

Config

The functions include: manual set COM, close COM, set language, etc.

1. Manual Set COM

Click [Config] - [Manual Set COM], the screen as shown in Figure 69 will be displayed:

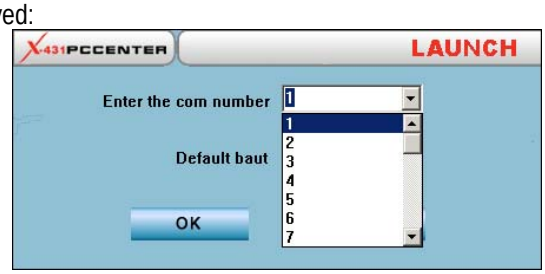

Figure 69

User can select a serial communication port here. There are 32 ports available on PC. Baudrate is the speed for communication. Usually use the default value.

2. Close COM

Click [Config] - [Close COM] to close port communication.

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3. Language Selection

Users in different areas can select their languages in the menu. Click [Config] – [Set language] as shown in Figure 70 will be displayed.

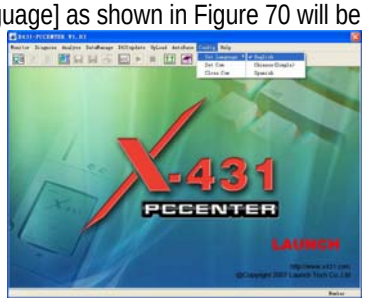

Figure 70

Help

Click [Help] and a dialogue box will pop up. See Figure 70.

Figure 71

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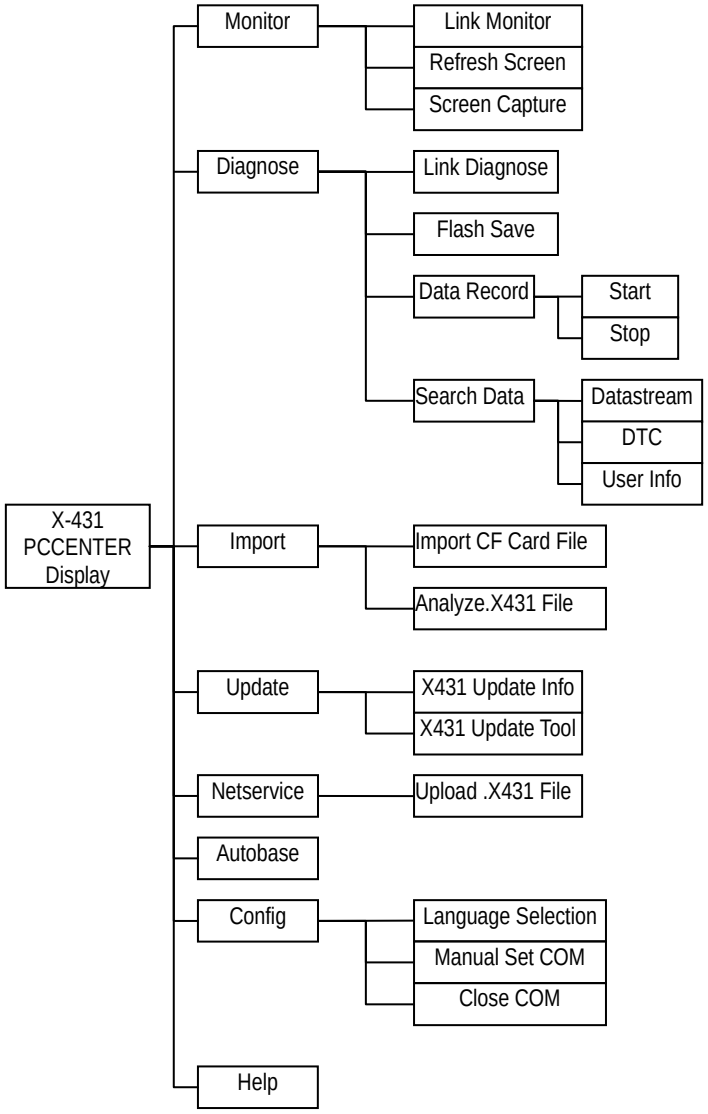
Function Menu of X431-PCCENTER DISPLAY



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Appendix

Vehicle Make/Model	Car Name/Macro Definition
OBD II, EOBD	EOBD2
Australian HOLDEN	HOLDEN
Australian Ford	FORD
BMW	BMW
PROTON	PROTON
Mercedes-Benz	BENZ
Honda	HONDA
Peugeot	PEUGEOT
Daihatsu	DAIHASU
Daewoo	DAEWOO
Volkswagen	AUDI
Fiat	FIAT
Toyota	TOYOTA
Ford	USAFORD
Volvo	VOLVO
Chrysler	CHRYSLER
Renault	RENAULT
Suzuki	SUZUKI
Perodua	PERODUA
Mazda	MAZDA
Opel	OPEL
Kia	KIA
Nissan	NISSAN
Mitsubishi	MITSUBISHI
SAIC Chery	QIRUI
Subaru	SUBARU
GM	GM
Isuzu	JPISUZU
Hyundai	HYUNDAI

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Citroen	CITROEN
ALFAROMEO	ROMEO
Lancia	LANCIA
Gaz	GAZ
Vaz	VAZ
Tata	TATA
HM	HM
Maruti Suzuki	MARUTI
Mahendra	MAHENDRA
Jinbei Special	JINBEIEN
Zhonghua Special	ZHONGHUAEN
Changcheng Special	changchengzy
Chevy	chevy
SPARK	SPARK
LAND ROVER	LANDROVER

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Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE LAUNCH PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

LAUNCH electronic product is warranted against defects in materials and workmanship for one year (12 months) from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and LAUNCH shall not be liable for any consequential or incidental damages.

Final determination of defects shall be made by LAUNCH in accordance with procedures established by LAUNCH. No agent, employee, or representative of LAUNCH has any authority to bind LAUNCH to any affirmation, representation, or warranty concerning LAUNCH automotive meters, except as stated herein.

Disclaimer

THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Order Information

Replaceable and optional parts can be ordered directly from your LAUNCH authorized tool supplier. Your order should include the following information:

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1. Quantity
2. Part number
3. Item description

Customer Service

If you have any questions on the operation of the unit, please contact us:

Tel: 86-755-84528431/84528822
Hotline: 400 830 5166
E-mail: X431@ cnlaunch.com

If your unit requires repair service, return it to the manufacturer with a copy of the sales receipt and a note describing the problem. If the unit is determined to be in warranty, it will be repaired or replaced at no charge. If the unit is determined to be out of warranty, it will be repaired for a nominal service charge plus return freight. Send the unit pre-paid to:

Attn: Customer Service Department
LAUNCH TECH. CO., LTD.
Launch Industrial Park,
North of Wuhe Avenue,
Banxuegang, Bantian,
Longgang, Shenzhen,
Guangdong
P.R.China, 518112

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